ASSIGNMENT 2

Textbook assignment: "Air-Launched Guided Missiles and Guided Missile Launchers," chapter 3, pages 3-1 through 3-36, and "Pyrotechnics," chapter 4, pages 4-1 through 4-18.

2-1 Guided missiles are used for what primary purpose?

1. To provide long range standoffs
2. To destroy targets only
3. To damage targets only
4. To destroy or damage targets

2-2. What factor influences the characteristics of guided missiles?

1. Altitude
2. Type of target
3. Weight of missile
4. Type of aircraft

2-3. Guided missiles are classified according to all EXCEPT which of the following items?

1. Warhead
2. Speed
3. Mission
4. Launch environment

2-4. Sonic speed is equivalent to approximately how many miles per hour under standard atmospheric conditions?

1. 700 mph
2. 550 mph
3. 666 mph
4. 766 mph

2-5. Guided missiles are divided into what two types?

1. Subsonic and supersonic
2. Transonic and hypersonic
3. Service and nonservice
4. Low altitude and high altitude

2-6. Practice guided weapons are used for which of the following purposes?

1. Pilot training in aerial acquisition
2. Stowage procedures and techniques
3. Assembly/disassembly training
4. Fleet weapons training exercises

2-7. Each component of a missile can be identified by what means?

1. Lettering
2. Size
3. Weight
4. Designator

2-8 A missile serial number is used for what purpose?

1. To identify the temperature range of the missile
2. To identify the Mk and Mod of the missile
3. To track the missile
4. To identify the explosive filler used in the missile

2-9 What section of a guided missile executes the missile maneuvers?

1. The propulsion section
2. The guidance section
3. The armament section
4. The control section

2-10, The arrangement of major missile sections depends upon what factor?

1. The missile type
2. The mission
3. The type of launch aircraft used
4. The target

2-11 Missile homing systems are classified in which of the following ways?

1. Semiactive only
2. Active only
3. Passive only
4. Semiactive, active, and passive

2-12 Target illumination in active homing is provided by what means?

1. The launch aircraft
2. The missile
3. The target
4. The ground control facility

2-13 Missile control surfaces are actuated by all EXCEPT which of the following types of power?

1. Air power
2. Hydraulic power
3. Electric power
4. Gas generator power

2-14 Large missile payloads can range up to what maximum number of pounds?

1. 375 lb
2. 400 lb
3. 425 lb
4. 450 lb

2-15. Most exercise warheads are of what type?

1. Pyrotechnic
2. High explosive comp B
3. High explosive H-6
4. Inert

2-16. How many basic propulsion systems are used in guided missiles?

1. Five
2. Two
3. Three
4. Four

2-17. Which of the following systems is NOT an atmospheric jet propulsion system?

1. Turbojet
2. Pulsejet
3. Ramjet
4. Thermal jet

2-18. A typical turbojet engine includes which of the following components?

1. An electrical compressor
2. An exhaust nozzle
3. A carburetor
4. A fuel temperature control

2-19. The majority of guided missile rocket motors use what type of propellant?

1. Solid
2. Powder
3. Gel
4. Liquid

2-20. In reference to DTRMs, which of the following statements is accurate?

1. The sustaining propellant burns faster than the boost propellant
2. The sustaining propellant burns first
3. The boost propellant burns first
4. The sustaining and boost propellants burn at equal rates

2-21. An AIM-7 guided missile can be launched from which of the following aircraft?

1. A-6
2. EA-6B
3. S-3
4. F/A-18

2-22. The AIM-7 guided missile weighs approximately how many pounds?

1. 500 lb
2. 510 lb
3. 690 lb
4. 730 lb

2-23. What is the diameter of an AIM-7 guided missile?

1. 6 in.
2. 7 in.
3. 8 in.
4. 9 in.

2-24. The radome of an AIM-7 guided missile is made of what material?

1. Ceramic
2. Metal
3. Fiberglass
4. Plastic

2-25. What type of warhead is used on an AIM-7 guided missile?

1. Pyrotechnic
2. Black powder
3. White phosphorous
4. Continuous- rod

2-26. Which of the following NAVAIR publications provides organizational, intermediate, and depot maintenance instructions?

1. 01-265GMAD-9-3
2. 11-5D-20
3. 11-75A-57
4. 16-1-529

2-27. A Harpoon missile contains what total number of sections?

1. Five
2. Two
3. Three
4. Four

2-28. The pressure probe assembly is contained in what section of an AGM-84 missile?

1. Sustainer
2. Warhead
3. Guidance
4. Control

2-29. An AGM-84 is approximately what length?

1. 125 in.
2. 141 in.
3. 145 in.
4. 151 in.

2-30. The control fins of an AGM-84 are made of what material?

1. Plastic
2. Steel
3. Aluminum
4. Fiberglass

2-31. What is the primary difference between an AIM-9L/M and ATM-9L-1?

1. The rocket motor
2. The warhead
3. The guidance section
4. The wings

2-32. An AIM-9 guidance and control section contains what total number of major assemblies?

1. Five
2. Two
3. Three
4. Four

2-33. An AIM-120 guided missile uses what type of warhead?

1. BSU-44
2. WDU-9
3. WDU-17
4. WDU-33

2-34. How many thermal batteries are contained in an AIM-120?

1. One
2. Two
3. Three
4. Four

2-35. The AIM-120 control surfaces are unlocked during launch by what means?

1. A pyrotechnic gas generator
2. An electrical generator
3. Safety pins
4. Hydraulic pressure

2-36. What prescribed speed must an aircraft reach before the walleye switches to the RAT?

1. 180 knots
2. 200 knots
3. 380 knots
4. 550 knots

2-37. An AIM-54 uses what type of missile control system?

1. AWG-9
2. AWG-13
3. AWW-9
4. AWW-13

2-38. What is the prescribed diameter of an AIM-54?

1. 8 in.
2. 10 in.
3. 15 in.
4. 18 in.

2-39. What is the prescribed length of an AIM-54?

1. 12 ft
2. 13 ft
3. 15 ft
4. 14 ft

2-40. An AGM-88 has what total number of basic modes of operation?

1. One
2. Two
3. Three
4. Four

2-41. An AGM-119 is designed to be launched from what platform?

1. A-6
2. SH-60
3. F/A-18
4. F-14

2-42. The Sidearm missile uses what designation?

1. AGM-119
2. AIM-119
3. AGM-122
4. AIM-122

2-43. What assembly is the main structural member of a LAU-7 missile launcher?

1. The nitrogen receiver assembly
2. The mechanism assembly
3. The electrical harness assembly
4. The housing assembly

2-44. What means is used to retain the missile on a LAU-115 launcher during an arrested landing?

1. An electrical solenoid
2. A mechanical solenoid
3. Hydraulic pressure
4. Gas pressure

2-45. To unload the missile from a LAU-115 launcher, what size of drive tool is required?

1. 1/4 in.
2. 3/8 in.
3. 1/2 in.
4. 5/8 in.

2-46. A LAU-116 launcher uses a total of how many impulse cartridges to eject the missile?

1. One
2. Two
3. Three
4. Four

2-47. A hand-manipulated signaling device is used for all EXCEPT which of the signaling purposes?

1. Identification
2. Countermeasure
3. Warning
4. Distress

2-48. Pyrotechnic pistols include all EXCEPT which of the following features?

1. Breechloaded
2. Single-shot
3. Double-action
4. Double-barreled

2-49. What is the total weight of a Mk-13 signal?

1. 6.4 ounces
2. 7.2 ounces
3. 8.5 ounces
4. 9.0 ounces

2-50. At what prescribed angle should you hold a Mk-13 signal?

1. 15°
2. 30°
3. 45°
4. 90°

2-51. A Mk-31 signal projector propels the signal to what prescribed height?

1. 150 to 250 ft
2. 250 to 650 ft
3. 350 to 750 ft
4. 450 to 850 ft

2-52. What is the prescribed weight of a LUU-2 flare?

1. 10 lb
2. 20 lb
3. 30 lb
4. 40 lb

2-53. What is the prescribed diameter of a LUU-2 parachute?

1. 10 ft
2. 12 ft
3. 18 ft
4. 20 ft

2-54. Approximately how many pounds of force is required to pull the timer knob from the timer of a LUU-2?

1. 10 lb
2. 20 lb
3. 30 lb
4. 40 lb

2-55. A Mk-25 will provide smoke and flame for approximately how many minutes?

1. 4 to 8 min.
2. 8 to 10 min
3. 10 to 20 min
4. 20 to 40 min

2-56. A Mk-25 uses what type of seawater battery?

1. MK-31
2. Mk-45
3. Mk-71
4. Mk-72

2-57. What adapter kit must be installed on a Mk-25 prior to launching from a sonobuoy tube?

1. Mk 34
2. Mk 72
3. ADK 34
4. ADK 72

2-58. What electric squid is used in a Mk-58 MLM?

1. Mk 13
2. Mk 31
3. Mk 34
4. Mk 71

2-59. What color smoke is produced by a CXU-3 signal cartridge?

1. White
2. Blue
3. Orange
4. Red

2-60. Pyrotechnic flares can burn up to what maximum temperature?

1. l,500°F
2. 2,000°F
3. 3,500°F
4. 4,500°F